

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

KOIKE, Akira
 No.11 Mori Building
 6-4, Toranomon 2-chome
 Minato-ku
 Tokyo 105-0001
 JAPON

Date of mailing (day/month/year) 16 August 1999 (16.08.99)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference SK99PCT49	International application No. PCT/JP99/03972

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

SONY CORPORATION (for all designated States except US)
 INANAGA, Kiyofumi (for US)

International filing date : 23 July 1999 (23.07.99)
 Priority date(s) claimed : 23 July 1998 (23.07.98)
 Date of receipt of the record copy by the International Bureau : 06 August 1999 (06.08.99)
 List of designated Offices :
 National :CN,KR,US

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- time limits for entry into the national phase
- confirmation of precautionary designations
- requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer: Y. KUWAHARA  Telephone No. (41-22) 338.83.38
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INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is 20 MONTHS from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, 30 MONTHS from the priority date, provided that the election is made before the expiration of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

GR and ES became bound by PCT Chapter II on 7 September 1996 and 6 September 1997, respectively, and may, therefore, be elected in a demand or a later election filed on or after 7 September 1996 and 6 September 1997, respectively, regardless of the filing date of the international application. (See second paragraph above.)

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

CONFIRMATION OF PRECAUTIONARY DESIGNATIONS

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity to furnish the priority document within a time limit which is reasonable under the circumstances.

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

Date of mailing (day/month/year)
16 August 1999 (16.08.99)

To:

KOIKE, Akira
No.11 Mori Building
6-4, Toranomon 2-chome
Minato-ku
Tokyo 105-0001
JAPON

Applicant's or agent's file reference SK99PCT49	IMPORTANT NOTIFICATION
International application No. PCT/JP99/03972	International filing date (day/month/year) 23 July 1999 (23.07.99)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 23 July 1998 (23.07.98)
Applicant SONY CORPORATION et al	

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
23 July 1998 (23.07.98)	10/207354	JP	06 Augu 1999 (06.08.99)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer Y. KUWAHARA Telephone No. (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

Date of mailing (day/month/year) 03 February 2000 (03.02.00)		From the INTERNATIONAL BUREAU	
Applicant's or agent's file reference SK99PCT49		To: KOIKE, Akira No.11 Mori Building 6-4, Toranomon 2-chome Minato-ku Tokyo 105-0001 JAPON	
International application No. PCT/JP99/03972	International filing date (day/month/year) 23 July 1999 (23.07.99)	Priority date (day/month/year) 23 July 1998 (23.07.98)	IMPORTANT NOTICE
Applicant SONY CORPORATION et al			

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
CN,KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:
None

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 03 February 2000 (03.02.00) under No. WO 00/05921

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a **demand for international preliminary examination** must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

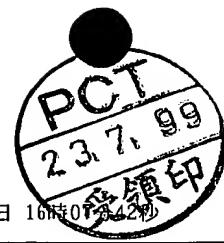
Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the **national phase**, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer J. Zahra Telephone No. (41-22) 338.83.38
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0-1	受理官庁記入欄 国際出願番号	
0-2	国際出願日	
0-3	(受付印)	
0-4	この特許協力条約に基づく国際出願願書(様式 - PCT/R0/101)は、右記によって作成された。	
0-4-1		PCT-EASY Version 2.84 (updated 01.07.1999)
0-5	申立て 出願人は、この国際出願が特許協力条約に従って処理されることを請求する。	
0-6	出願人によって指定された受理官庁	日本国特許庁 (R0/JP)
0-7	出願人又は代理人の書類記号	SK99PCT49
I	発明の名称	赤外線伝送方式の送信装置及びヘッドホン装置を用いた再生装置
II	出願人 II-1 この欄に記載した者は II-2 右の指定国についての出願人である。 II-4ja II-4en II-5ja II-5en II-6 II-7	出願人である (applicant only) 米国を除くすべての指定国 (all designated States except US) 名称 Name あて名: Address: 国籍 (国名) 住所 (国名)
III-1	その他の出願人又は発明者 III-1-1 この欄に記載した者は III-1-2 右の指定国についての出願人である。 III-1-4ja III-1-4en III-1-5ja III-1-5en III-1-6 III-1-7	出願人及び発明者である (applicant and inventor) 米国のみ (US only) 稻永 潔文 INANAGA, Kiyofumi 141-0001 日本国 東京都 品川区 北品川6丁目7番35号 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141-0001 Japan 日本国 JP 日本国 JP
III-1-1-1	Address:	c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141-0001 Japan
III-1-6	国籍 (国名)	日本国 JP
III-1-7	住所 (国名)	日本国 JP

IV-1	代理人又は共通の代表者、通知のあて名 下記の者は国際機関において右記のごとく出願人のために行動する。 氏名(姓名) Name (LAST, First)	代理人 (agent) 小池 晃 KOIKE, Akira 105-0001 日本国 東京都 港区 虎ノ門二丁目6番4号 第11森ビル No.11 Mori Bldg., 6-4, Toranomon 2-chome Minato-ku, Tokyo 105-0001 Japan 03-3508-8266 03-3508-0439	
IV-1-1ja IV-1-1en IV-1-2ja	あて名: Address:		
IV-1-3 IV-1-4	電話番号 ファクシミリ番号		
IV-2	その他の代理人	筆頭代理人と同じあて名を有する代理人 (additional agent(s) with same address as first named agent)	
IV-2-1ja IV-2-1en	氏名 Name(s)	田村 榮一; 伊賀 誠司 TAMURA, Eiichi; IGA, Seiji	
V V-1	国 の 指 定 広域特許 (他の種類の保護又は取扱いを求める場合には括弧内に記載する。)	--	
V-2	国 内 特 许 (他の種類の保護又は取扱いを求める場合には括弧内に記載する。)	CN KR US	
V-5	指定の確認の宣言 出願人は、上記の指定に加えて、規則4.9(b)の規定に基づき、特許協力条約のもとで認められる他の全ての国の指定を行う。ただし、V-6欄に示した国の指定を除く。出願人は、これらの追加される指定が確認を条件としていること、並びに優先日から15月が経過する前にその確認がなされない指定は、この期間の経過時に、出願人によって取り下げられたものとみなされることを宣言する。		
V-6	指定の確認から除かれる国	なし (NONE)	
VI-1	先の国内出願に基づく優先権主張		
VI-1-1 VI-1-2 VI-1-3	先の出願日 先の出願番号 国名	1998年07月23日 (23.07.1998) 平成10年特許願第207354号 日本国 JP	
VII-1	特定された国際調査機関(ISA)	日本国特許庁 (ISA/JP)	
VIII VIII-1 VIII-2 VIII-3 VIII-4 VIII-5 VIII-6 VIII-7	照合欄 願書 明細書 請求の範囲 要約 図面 合計	用紙の枚数 3 23 6 1 12 45	添付された電子データ - - - absk99pct49.txt -

特許協力条約に基づく国際出願願書

副本 - 印刷日時 1999年07月23日 (23.07.1999) 金曜日 16時07分42秒

	添付書類	添付	添付された電子データ
VIII-8	手数料計算用紙	✓	-
VIII-12	優先権証明書	優先権証明書 VI-1	-
VIII-16	PCT-EASYディスク	-	フレキシブルディスク
VIII-17	その他	納付する手数料に相当する特許印紙を貼付した書面	-
VIII-18	要約書とともに提示する図の番号	1	
VIII-19	国際出願の使用言語名:	日本語 (Japanese)	
IX	提出者の記名押印		
IX-1	氏名(姓名)		
IX-2	権限		

受理官庁記入欄

10-1	国際出願として提出された書類の実際の受理の日	
10-2	図面 :	
10-2-1	受理された	
10-2-2	不足図面がある	
10-3	国際出願として提出された書類を補完する書類又は図面であつてその後期間内に提出されたものの実際の受理の日(訂正日)	
10-4	特許協力条約第11条(2)に基づく必要な補完の期間内の受理の日	
10-5	出願人により特定された国際調査機関	ISA/JP
10-6	調査手数料未払いにつき、国際調査機関に調査用写しを送付していない	

国際事務局記入欄

11-1	記録原本の受理の日	
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特許協力条約

PCT

US

国際調査報告

(法8条、法施行規則第40、41条)
[PCT18条、PCT規則43、44]

出願人又は代理人 の書類記号 SK99PCT49	今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220)及び下記5を参照すること。	
国際出願番号 PCT/JP99/03972	国際出願日 (日.月.年) 23.07.99	優先日 (日.月.年) 23.07.98
出願人(氏名又は名称) ソニー株式会社		

国際調査機関が作成したこの国際調査報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 4 ページである。

この調査報告に引用された先行技術文献の写しも添付されている。

1. 国際調査報告の基礎

a. 言語は、下記に示す場合を除くほか、この国際出願がされたものに基づき国際調査を行った。
 この国際調査機関に提出された国際出願の翻訳文に基づき国際調査を行った。

b. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際調査を行った。
 この国際出願に含まれる書面による配列表
 この国際出願と共に提出されたフレキシブルディスクによる配列表
 出願後に、この国際調査機関に提出された書面による配列表
 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表
 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった。
 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。

2. 請求の範囲の一部の調査ができない(第I欄参照)。

3. 発明の単一性が欠如している(第II欄参照)。

4. 発明の名称は 出願人が提出したものを承認する。

次に示すように国際調査機関が作成した。

5. 要約は 出願人が提出したものを承認する。

第III欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から1ヶ月以内にこの国際調査機関に意見を提出することができる。

6. 要約書とともに公表される図は、
第 3 図とする。 出願人が示したとおりである。

なし

出願人は図を示さなかった。

本図は発明の特徴を一層よく表している。

A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int. Cl^o H 04 R 5 / 033

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int. Cl^o H 04 B 10 / 00, Int. Cl^o H 04 L 1 / 08, Int. Cl^o H 04 R 1 / 10, 5 / 033,
Int. Cl^o H 04 S 1 / 00-7 / 00.

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報 1926-1996年
 日本国公開実用新案公報 1971-1995年
 日本国実用新案登録公報 1996-1998年
 日本国登録実用新案公報 1994-1998年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X	J P, 5-260024, A (ソニー株式会社) 8. 10月. 19 93 (08. 10. 93), 第6欄第25行-第7欄第12行 (フ アミリーなし)	1, 5
Y	J P, 5-260024, A (ソニー株式会社) 8. 10月. 19 93 (08. 10. 93), 第6欄第25行-第7欄第12行 (フ アミリーなし)	2, 4, 6
Y	J P, 8-83100, A (三菱電機株式会社) 26. 3月. 19 96 (26. 03. 96), 第6欄第10行-第7欄第47行 (フ アミリーなし)	2, 4, 6

 C欄の続きにも文献が列挙されている。 パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」特に関連のある文献ではなく、一般的技術水準を示す
もの
 「E」国際出願日前の出願または特許であるが、国際出願日
以後に公表されたもの
 「L」優先権主張に疑義を提起する文献又は他の文献の発行
日若しくは他の特別な理由を確立するために引用する
文献 (理由を付す)
 「O」口頭による開示、使用、展示等に言及する文献
 「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」国際出願日又は優先日後に公表された文献であって
出願と矛盾するものではなく、発明の原理又は理
論の理解のために引用するもの
 「X」特に関連のある文献であって、当該文献のみで発明
の新規性又は進歩性がないと考えられるもの
 「Y」特に関連のある文献であって、当該文献と他の1以
上の文献との、当業者にとって自明である組合せに
よって進歩性がないと考えられるもの
 「&」同一パテントファミリー文献

国際調査を完了した日

05. 10. 99

国際調査報告の発送日

19.10.99

国際調査機関の名称及びあて先

日本国特許庁 (ISA / JP)

郵便番号 100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

武田 裕司

5 C 8947

電話番号 03-3581-1101 内線 3541

第I欄 請求の範囲の一部の調査ができないときの意見(第1ページの2の続き)

法第8条第3項(PCT17条(2)(a))の規定により、この国際調査報告は次の理由により請求の範囲の一部について作成しなかった。

1. 請求の範囲 _____ は、この国際調査機関が調査をすることを要しない対象に係るものである。つまり、
2. 請求の範囲 7-16 は、有意義な国際調査をできる程度まで所定の要件を満たしていない国際出願の部分に係るものである。つまり、
上記請求の範囲に記載の事項は、明細書若しくは図面に記載されたものとは構成が異なるものであり、その請求項の記載によって把握できる発明が著しく不明確であるので、有意義な国際調査をすることができない。
3. 請求の範囲 _____ は、従属請求の範囲であってPCT規則6.4(a)の第2文及び第3文の規定に従って記載されていない。

第II欄 発明の単一性が欠如しているときの意見(第1ページの3の続き)

次に述べるようにこの国際出願に二以上の発明があるとこの国際調査機関は認めた。

1. 出願人が必要な追加調査手数料をすべて期間内に納付したので、この国際調査報告は、すべての調査可能な請求の範囲について作成した。
2. 追加調査手数料を要求するまでもなく、すべての調査可能な請求の範囲について調査することができたので、追加調査手数料の納付を求めなかった。
3. 出願人が必要な追加調査手数料を一部のみしか期間内に納付しなかったので、この国際調査報告は、手数料の納付のあった次の請求の範囲のみについて作成した。
4. 出願人が必要な追加調査手数料を期間内に納付しなかったので、この国際調査報告は、請求の範囲の最初に記載されている発明に係る次の請求の範囲について作成した。

追加調査手数料の異議の申立てに関する注意

追加調査手数料の納付と共に出願人から異議申立てがあった。
 追加調査手数料の納付と共に出願人から異議申立てがなかった。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP99/03972

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:

because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 7 to 16

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

The matters defined by the claims are different from those described in the description and shown in the drawings, and the inventions of claims are remarkably unclear. Therefore, a meaningful international search cannot be carried out.

3. Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP99/03972

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP, 3-115500, U (NEC Home Electronics Ltd.), 28 November, 1991 (28. 11. 91) (Family: none)	3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP99/03972

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁶ H04R5/033

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁶ H04B10/00, H04L1/08, H04R1/10, 5/033, H04S1/00-7/00Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-1998
Kokai Jitsuyo Shinan Koho 1971-1995 Jitsuyo Shinan Toroku Koho 1996-1998

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP, 5-260024, A (Sony Corp.), 8 October, 1993 (08. 10. 93), Column 6, line 25 to column 7, line 12 (Family: none)	1, 5
Y	JP, 5-260024, A (Sony Corp.), 8 October, 1993 (08. 10. 93), Column 6, line 25 to column 7, line 12 (Family: none)	2, 4, 6
Y	JP, 8-83100, A (Mitsubishi Electric Corp.), 26 March, 1996 (26. 03. 96), Column 6, line 10 to column 7, line 47 (Family: none)	2, 4, 6
A	JP, 5-260024, A (Sony Corp.), 8 October, 1993 (08. 10. 93), Column 6, line 25 to column 7, line 12 (Family: none)	3
A	JP, 9-70094, A (Sony Corp.), 11 March, 1997 (11. 03. 97), Column 8, line 37 to column 20, line 21. (Family: none)	3

 Further documents are listed in the continuation of Box C. See patent family annex.

"A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 5 October, 1999 (05. 10. 99)	Date of mailing of the international search report 19 October, 1999 (19. 10. 99)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.